FIG.1

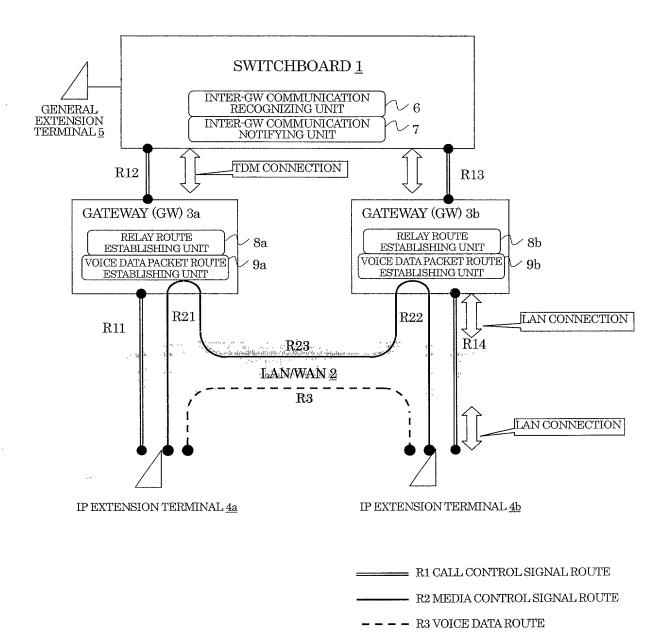
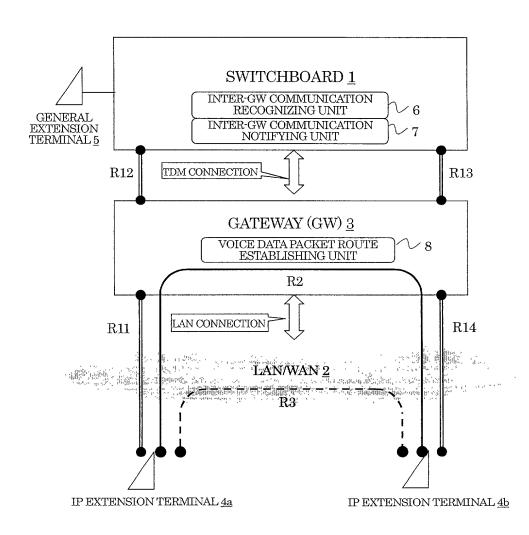


FIG.2

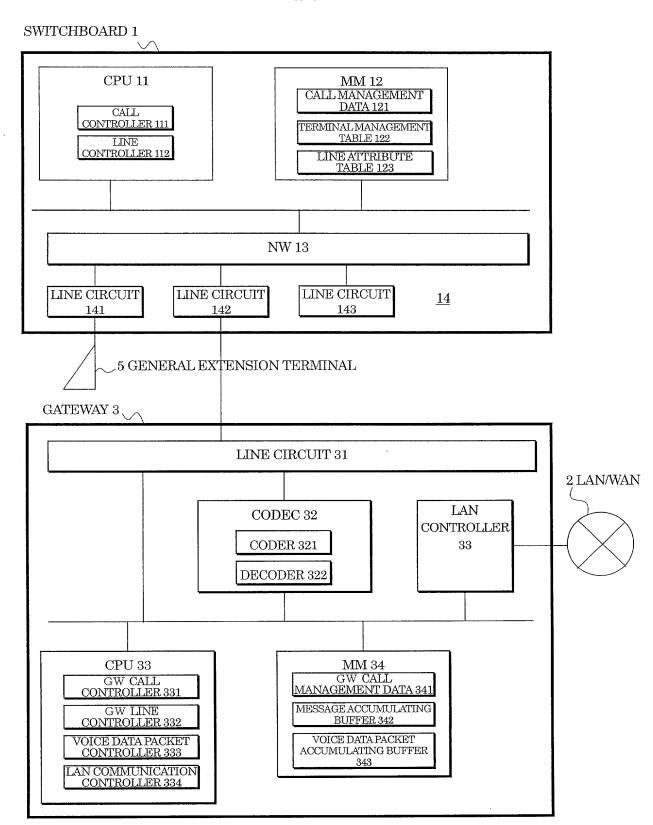


=== R1 CALL CONTROL SIGNAL ROUTE

R2 MEDIA CONTROL SIGNAL ROUTE

--- R3 VOICE DATA ROUTE

FIG.3



CALL MANAGEMENT DATA 121

RETRIEVE WITH CALL MANAGEMENT NO.

- · CALLING CALL REFERENCE
- · CALLING EXTENSION TERMINAL NO.
- · CALLING GW IP ADDRESS
- \cdot CALLED CALL REFERENCE
- · CALLED EXTENSION TERMINAL NO.
- · CALLED GW IP ADDRESS

FIG.5

TERMINAL MANAGEMENT TABLE 122

RETRIEVE WITH EXTENSION NO.

- \cdot EXTENSION TERMINAL NO.
- · ACCOMMODATING LOCATION NO.

LINE ATTRIBUTE TABLE 123

RETRIEVE WITH ACCOMMODATING LOCATION NO.

> · CLASSIFICATION (GW/GENERAL LINE) · IP ADDRESS

> (GW IP ADDRESS/ 0 (= GENERAL LINE))

FIG.7

GW CALL MANAGEMENT DATA 341

RETRIEVE WITH CALL MANAGEMENT NO.

- TDM CALL REFERENCE
 LAN CALL REFERENCE
 CONNECTING DESTINATION GW IP
 ADDRESS
 CONNECTING DESTINATION CALL REFERENCE
 IP ADDRESS OF ACCOMMODATED IP
 EXTENSION TERMINAL
 MEDIA CONTROLLING

- MEDIA CONTROLLING
 TCP CONNECTION NO.

 VOICE DATA PACKET
 TRANSMISSION ADDRESS
 RELAYING TCP CONNECTION NO.

MESSAGE FORMAT BETWEEN SWITCHBOARD & GW · CALL REFERENCE · INFORMATION ELEMENT CLASSIFICATION (NON-STANDARD INFORMATION) · MESSAGE CLASSIFICATION (SESSION INITIALIZE/ ADDITIONAL INFORMATION/···) CONNECTING DESTINATION GW IP ADDRESS CONNECTING DESTINATION CALL INFORMATION ELEMENT · NON-STANDARD INFORMATION REFERENCE CALLING/CALLED ELEMENT CLASSIFICATION (CALLING/CALLED) CONNECTION CHANGEOVER

CLASSIFICATION (CHANGEOVER/CHANGEBACK)

FIG.9

MESSAGE FORMAT OF INTER-GW ABILITY EXCHANGE

IP HEADER TCP HEADER · MESSAGE CLASSIFICATION (ABILITY INFORMATION SETTING REQUEST) NON-STANDARD DATA (CONNECTING SOURCE CALL REFERENCE) CODER CLASSIFICATION

CONDITION OF DATA SETTING EXAMPLE	
DATA REGISTERED STATICALLY	DATA REGISTERED DYNAMICALLY
· IP EXTENSION TERMINAL 4a: EXTENSION NO. = 3000, IP ADDRESS = 192.168.1.100 · IP EXTENSION TERMINAL 4b: EXTENSION NO. = 3100, IP ADDRESS = 192.168.1.200 · GW 3a: IP ADDRESS = 192.168.1.10, ACCOMMODATING IP EXTENSION TERMINAL 4a · GW 3b: IP ADDRESS = 192.168.1.20, ACCOMMODATING IP EXTENSION TERMINAL 4b	CALL REFERENCE =100 BETWEEN GW 3a & IP EXTENSION TERMINAL 4a CALL REFERENCE =10 BETWEEN GW 3a & SWITCHBOARD 1 MEDIA CONTROLLING TCP CONNECTION NO.=16 ABOUT GW 3a RELAYING TCP CONNECTION NO.=18 ABOUT GW 3a CALL REFERENCE =200 BETWEEN GW 3b & IP EXTENSION TERMINAL 4b CALL REFERENCE =20 BETWEEN GW 3b & SWITCHBOARD 1 MEDIA CONTROLLING TCP CONNECTION NO. = 17 ABOUT GW 3b RELAYING TCP CONNECTION NO. =19 ABOUT GW 3b VOICE DATA PACKET ADDRESS = IP: 192.168.1.100 + UDP PORT 13000 ABOUT IP EXTENSION TERMINAL 4a VOICE DATA PACKET ADDRESS = IP: 192.168.1.200+ UDP PORT 13100 ABOUT IP EXTENSION TERMINAL 4b

FIG.11

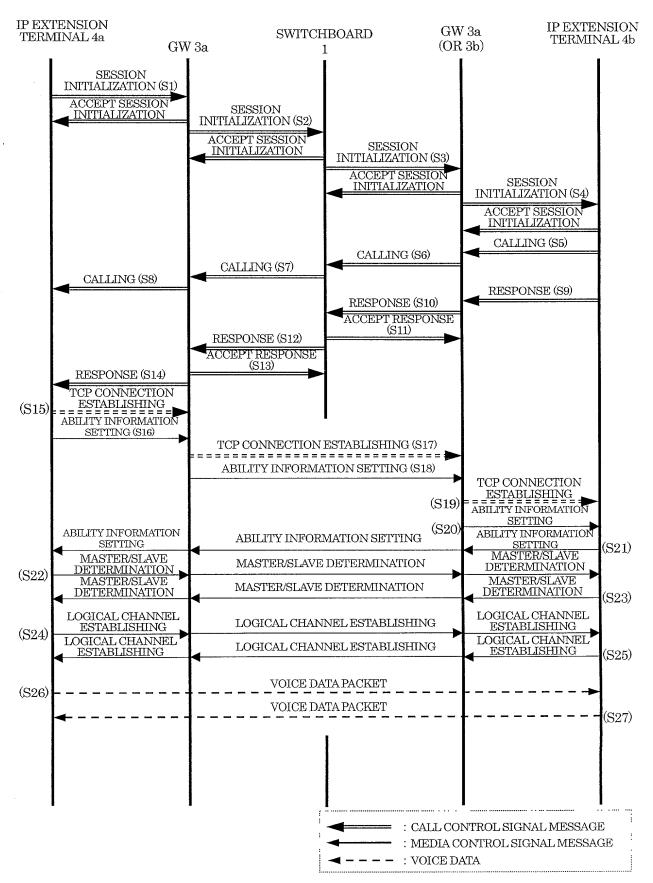


FIG.12

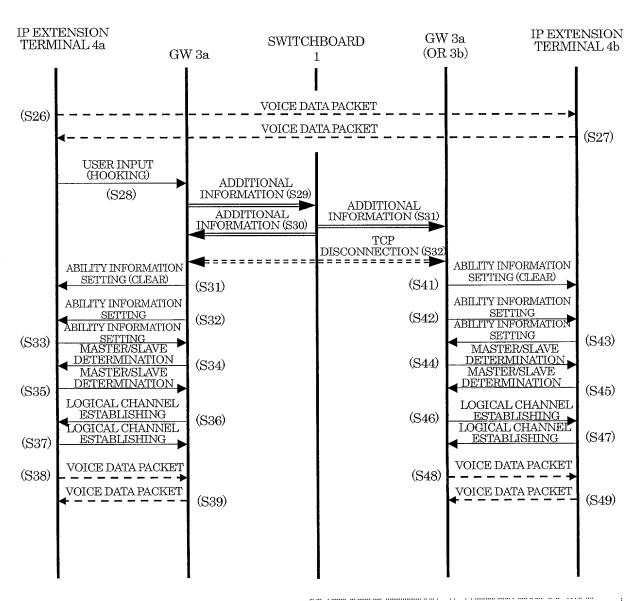
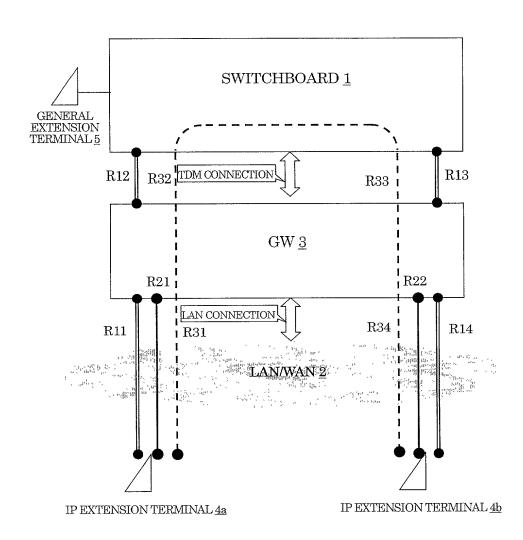




FIG.13



R1 CALL CONTROL SIGNAL ROUTE

- R2 MEDIA CONTROL SIGNAL ROUTE

- - R3 VOICE DATA ROUTE